



Wiring Accessories

Weatherproof WiFi Socket Range Extender

For your safety, this product must be installed in accordance with local Building Regulations. **If in any doubt, or where required by the law, consult a competent person who is registered with an electrical self-certification scheme.** Further information is available online or from your Local Authority. Please read carefully and use in accordance with these safety wiring instructions. Before commencing any electrical work ensure the supply is switched off at the mains. Either by switching off the consumer unit or by removing the appropriate fuse or turning off MCB (trip). Wiring should be in accordance with the latest edition of the IET regulations (BS 7671). To prevent fire hazard always use cable of the correct rating & type for the application. **Warning do not exceed the load rating of this device as stated on the rear of the product.**

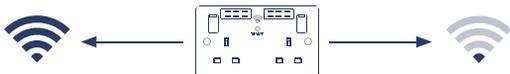
Note - As from 1st April 2004 new colour codes for hard wire installations were introduced.
EARTH = Green/Yellow Sleaving
NEUTRAL = Black (pre Apr 04) / Blue (after Apr 04)
LIVE = Red (pre Apr 04) / Brown (after Apr 04)



If installed correctly BG Electrical Weatherproof products provide an IP66 level of protection, this means that the sealed construction provides a very high level of protection against the ingress of both water & dust. The cover will seal regular sized plugs, however the cover must be closed and secured when in use to provide the IP rating protection. Do not allow water to enter the socket with the cover open.

Positioning Your Wi-Fi Socket

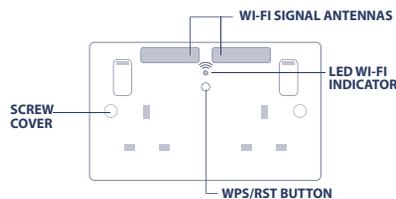
Your Wi-Fi socket should be positioned half way between your router and the Wi-Fi dead-zone use the signal strength indicator on your mobile device to determine the mid-signal point.



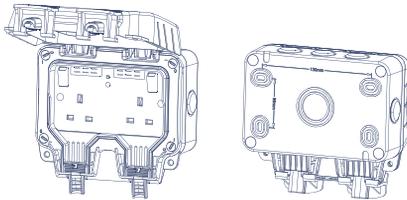
Choose a location away from Bluetooth devices and other household electronics (cordless phone, microwave oven, baby monitor, etc.) to minimise signal interference.

Product Overview

Wi-Fi Socket Range Extender



The enclosure is IP66 rated in use, which means when the front cover is closed the seal construction provides protection from direct strong jets of water, and the ingress of dust.



Safety Instructions

Please read carefully before installation.

1. An outdoor location should be chosen ensuring adequate access to a mains supply circuit. The circuit MUST be protected by an appropriate fuse, circuit breaker or RCD (Residual Current Device) in accordance with current IET wiring regulations.
2. Where conduit is used for cable runs, water condensation MUST be prevented from collecting inside the unit & conduit. Drain holes MUST be drilled out (see Installation Instructions)
3. If metal conduit is used, earth continuity across the conduit must be maintained using appropriate connections (not supplied). An earth terminal in the Rear Box is provided as required.
4. Where outdoor cable runs occur, ensure cable recommended for outdoor installations is used. In general, rubber insulated cable & plastic M20 cable glands can be used. Alternatively standard flat PVC twin & earth mains cable inside 20mm plastic or metal conduit may be used. Where necessary, SWA (Steel Wire Armoured) cable with metal cable glands should be used. The outdoor use of unprotected flat PVC insulated cable is NOT recommended.

Insulation Testing

This socket outlet is designed to withstand insulation resistance testing at 500V as defined by BS1363-2.

- Perform insulation test between Line & Neutral at 250V.
 - 500V test may be performed between Line & Earth, Neutral & Earth.
- Or,
- Disconnect all Neutral connection in the socket and connect into terminal block before replacing the socket prior to test.

Environmental Protection



This symbol is known as the "Crossed-out Wheelie Bin Symbol". When this symbol is marked on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

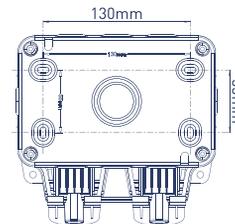
Installation Instructions

Before commencing work always isolate the power at the consumer unit/fuse box.

1. The unit should be mounted on a clean, rigid vertical surface suitable to accept screw type fixings. Surface should be reasonably flat as unevenness could cause product damage or affect operation. **Before installation ensure the socket location has adequate WiFi coverage.**
2. Remove Front assembly from Rear Box.
3. For cable entry, decide if conduit is being used & entry positions. For side, top or rear entry the lowermost drain hole position MUST be drilled out using a 5mm drill. ONLY ONE drain hole position must be drilled. For bottom entry a drain hole MUST NOT be drilled in Rear Box, but a drain hole MUST be drilled at lowermost point of conduit run. For rear entry, drill/cut the appropriate size hole. For extra sealing protection, channels around knock-out and fixing holes are provided to accept a bead of sealant (not supplied) when fixing to mounting surface.

Note - The drilling of the drain hole or removing a knock-out will reduce the IP rating of the product.

4. Mount the Rear Box using No.8 screws in all four, or at least two diagonal positions on fixing centres shown. The fixing holes are slotted to enable some rotation adjustment if required. Fit supplied Bungs over all used fixing screw positions to seal aperture recesses.



5. Make cable entry into rear box as required. Only remove the blanking plugs for positions used. Ensure adequate excess lengths of cable for connection to the Socket. Install & seal all cable glands & conduit to Manufacturer's instructions. To install, remove the blanking plug from rear box, and fit gland or conduit. Ensure the gland or conduit and cable entry are sealed with a non-setting sealant.

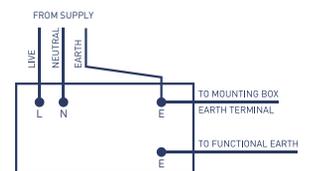
6. Offer up Front Assembly to Rear Box to determine final lengths of cables & cut to suit. Strip outer insulation as required & then trim insulation on individual wires 10-12mm to expose conductor ends.

7. Connect the wires to the correct rear terminals.
Connect LIVE wire to BROWN LIVE (L) terminal
Connect NEUTRAL wire to BLUE NEUTRAL (N) terminal
Connect EARTH wire to GREEN/YELLOW (E) terminal

NOTE

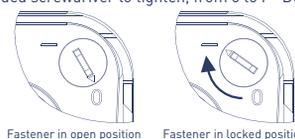
- (1) The colours of the wires will be dependent on the type of cable used.
- (2) It is possible to remove the socket from the Front Assembly to aid wiring by releasing the retaining clips on the rear.

Wiring Diagram



8. Tighten terminal screws securely (Do not over tighten).
9. Any earth connections MUST be made & continuity maintained. All bare earth wires must be sheathed with green/yellow sleeving. Note - the sockets have two linked earth terminals but only one needs to be used for the installation.

10. After wiring Socket, refit Front Assembly to Rear Box, secure using the quick fix fasteners. Turn 150° clockwise with a suitable flat bladed screwdriver to tighten, from 0 to I - DO NOT OVER TIGHTEN.



11. Once the installation has been completed correctly, replace the fuse/reset MCB (trip), switch the power back on at the consumer unit and test.

12. For security to prevent unwanted tampering of the socket, the cover has two lug features with 6mm holes, this will accept a padlock or similar locking security device (not supplied).



Wi-Fi Socket Setup Instructions

Resetting Your Wi-Fi Socket

Ensure that your Wi-Fi socket is connected to the power supply as per 'Installation Instructions'. After the initial power up the LED indicator will illuminate with a solid blue light. After a short period of time the indicator will then start to blink and the product will then be ready for set-up. Proceed with your preferred method of connection:

- Press and hold the WPS/RST button on the front of the Wi-Fi socket for 5 seconds
- The LED will blink amber/blue and then extinguish.
- Wait for a blue blinking LED to return.
- Your Wi-Fi socket is now ready to setup

Wireless Setup

There are three installation methods to connect to the Wi-Fi socket:

- Web browser – Using your computer, smart phone or tablet's internet browser (Safari, Chrome, Firefox, Edge, Internet Explorer).
- QR code – Scan the QR code to take you directly to the setup page.
- WPS (Wi-Fi Protected Setup) – One touch setup, no configuration needed.

Web browser setup



- Connect to a new Wi-Fi network called "Wi-Fi Socket" (no password is required).
*Note: if the "Wi-Fi Socket" network is not showing, please reset the Wi-Fi socket.
- Enter the URL <http://Wi-Fi-Socket.repeater.net> into your browser search bar.



- Select the Wi-Fi network to be extended.
- Enter your Wi-Fi router password.
- Ensure the tick-box "Set the same SSID & Password" is ticked. This will change the "Wi-Fi Socket" network name to match your current router network name.
- Click 'Next'.
*Note: Should you need to change the network encryption mode, choose from the drop-down menu. Default is WPA2-PSK. Refer to your router handbook for further details.
- Click 'Apply'.
- The Wi-Fi socket will show a solid blue LED, and is now ready to use.
- Your devices will connect using your existing Wi-Fi network name.

Please note - this is a set-up website only that is hosted by the Wi-Fi socket. For more information or support please visit www.bgelectrical.co.uk

QR code setup



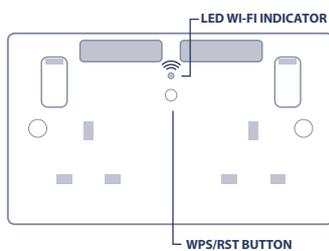
- On your smartphone or tablet, connect to a new Wi-Fi network called "Wi-Fi Socket" (no password is required).
*Note: if the "Wi-Fi Socket" network is not showing, please reset the Wi-Fi socket.
- Scan the QR code.



- Select the Wi-Fi network to be extended.
- Enter your Wi-Fi router password.
- Ensure the tick-box "Set the same SSID & Password" is ticked.
- This will change the "Wi-Fi Socket" network name to match your current router network name.
- Click 'Next'.
*Note: Should you need to change the network encryption mode, choose from the drop-down menu. Default is WPA2-PSK. Refer to your router handbook for further details.
- Click 'Apply'.
- The Wi-Fi socket should show a solid blue LED, and is now ready to use.
- Your devices will connect using your existing Wi-Fi network name.

WPS (Wi-Fi protected) setup

- Press and hold the WPS button on your router for 5 seconds.
*Note: WPS connection may differ for each manufacturer, please refer to your router handbook for your specific WPS connection method.
- Press the WPS/RST button once on the Wi-Fi socket.
- The LED will blink orange whilst connecting to your router.
- Once connected, the LED will light solid blue.
- Your devices will connect using your existing Wi-Fi network name.



Turning Off the Wi-Fi Function (Holiday Mode)

- Press the WPS/RST button 3 times to turn off the RF (Wi-Fi) signal. The LED will extinguish.
- To turn the functionality back on, press the WPS/RST button 3 times. The LED will show solid blue and Wi-Fi connectivity will be restored.
*Note: The 13A socket outlets work independently and are unaffected by holiday mode.

FAQ's

The "Wi-Fi Socket" network is not showing in my list of networks?

A: Please reset your Wi-Fi socket [Refer to the 'Resetting your Wi-Fi socket' section] then try again.

I can't see the login page after typing <http://Wi-Fi-Socket.repeater.net> in the browser, or by scanning the QR code?

A1: Make sure your computer/phone/tablet is connected to the "Wi-Fi Socket" Wi-Fi network.
A2: Ensure your Wi-Fi socket is connected to the power and the blue LED indicator is lit. Once connected, reset the socket.

How do I reset the Wi-Fi socket?

A: Refer to the 'Resetting your Wi-Fi socket' section.

My router doesn't have a WPS button, what do I do?

A: Please use the 'Web browser' method to setup your Wi-Fi socket.

Setup Advice & How-to Guides

Visit www.bgelectrical.co.uk/wifi for additional support.

Care

This BG Electrical Nexus Storm Weatherproof accessory is made from polycarbonate material that is durable with a high impact resistance. During the life of the product any cleaning should be carried out with a damp cloth using a mild detergent & warm water. DO NOT USE solvent based cleaners as these may cause damage.

Technical

Voltage : 240V ac
Frequency : 50/60Hz
Rating : 13A
Terminal Capacity : 3 x 2.5mm², 3 x 4mm², 2 x 6.0mm²
WiFi Specification : N300 MBPS, 2.4GHz
Network Standards : 802.11 b/g/n
Note - The front surface of this product may become warm in use. This is normal and not cause for concern.

Batch Code Explanation

yyWxx Manufacturing date code, year of manufacture (yy) and week of manufacture (Wxx)

Address/Helpline

Luceco PLC
Stafford Park 1
Telford TF3 3BD
ENGLAND

(EU) Luceco SE
C/ Bobinadora 1-5
08302 Mataró
SPAIN

If you have further technical assistance you can get in touch with our

Technical Helpline on:
+44 (0)3300 249 279
technical.support@bgelectrical.co.uk



(UK) DECLARATION OF CONFORMITY

Product		
<ul style="list-style-type: none"> • Product name – Weatherproof WiFi Socket Range Extender • Product model refer to table below • Type / batch or serial number range 21W30 to 23W30 	Name and address of the manufacturer or his authorised representative:	
	Luceco plc Luceco UK Ltd: Building E, Stafford Park 1 Telford, Shropshire TF3 3BD, UK	
This declaration of conformity is issued under the sole responsibility of the manufacturer.		
Object of the declaration		
Product	Model	EAN
Weatherproof WiFi Socket Range Extender	WP22WR	5050765181105
The object of the declaration described above is in conformity with the relevant legislation:		
Radio Equipment Regulations 2017 as amended The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 as amended		
References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:		
BS 1363-2:2016+A1:2018	EN 301 489-1 V2.2.3	EN 61000-6-3:2007+A1:2011
EN 62368-1:2014+A11:2017	EN 301 489-17 V3.2.4	EN 300 328 V2.2.2
EN IEC 62311:2020	EN IEC 61000-6-1:2019	
Signed for and on behalf of Luceco UK Ltd		
Name: David Cleaver	Signature:	
Position: Product Director – Electrical	On: 22/07/2021	



(EN) EU DECLARATION OF CONFORMITY

Product		
<ul style="list-style-type: none"> • Product name – Weatherproof WiFi Socket Range Extender • Product model refer to table below • Type / batch or serial number range 21W30 to 23W30 	Name and address of the manufacturer or his authorised representative:	
	Luceco plc, Luceco Southern Europe, S.L. C/ Bobinadora 1-5 08302 Mataró Barcelona (SPAIN)	
This declaration of conformity is issued under the sole responsibility of the manufacturer.		
Object of the declaration		
Product	Model	EAN
Weatherproof WiFi Socket Range Extender	WP22WR	5050765181105
The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:		
2014/53/EU as amended Radio Equipment Directive 2011/65/EU as amended Directive Restriction of the use of certain hazardous substances in electrical and electronic equipment		
References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:		
BS 1363-2:2016+A1:2018	EN 301 489-1 V2.2.3	EN 61000-6-3:2007+A1:2011
EN 62368-1:2014+A11:2017	EN 301 489-17 V3.2.4	EN 300 328 V2.2.2
EN IEC 62311:2020	EN IEC 61000-6-1:2019	
Signed for and on behalf of Luceco SE S.L		
Name: David Cleaver	Signature:	
Position: Product Director – Electrical	On: 22/07/2021	